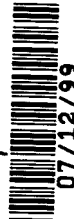


PATENT

Jc511 U.S. PRO
09/351147



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Liu et al.

Examiner: Unassigned

Serial No.: Unassigned

Group Art Unit: Unassigned

Filed: Herewith

Docket: 10164-1 (125-497)

For: CATALYTIC PRODUCTION OF
LIGHT OLEFINS FROM NAPHTHA
FEED

Dated: July 6, 1999

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In fulfillment of the requirements of candor and good faith set forth in 37 C.F.R.
§ 1.56, Applicants submit herewith the following Information Disclosure Statement in
accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98.

U.S. PATENT DOCUMENTS

<u>PATENTEE</u>	<u>PATENT NO.</u>	<u>ISSUE DATE</u>
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Plank et al.	3,939,058	February 17, 1976
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Bowes	4,582,815	April 15, 1986
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Nemet-Mavrodin	4,918,256	April 17, 1990
Li et al.	4,980,053	December 25, 1990
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EPO	EP 0 490 435 B1	06/17/92
PCT	WO 98/03612	01/29/98

NON-PATENT PUBLICATIONS

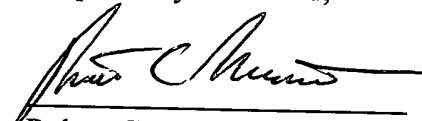
1. "The Paragon Process: A New Hydrocracking Concept", D. J. O'Rear, Ind. Eng. Chem. Res. 26:2337-2344 (1987).
2. "Cracking of FC and Coker Naphthas by ZSM-5 Catalyst and Equilibrium FC Catalyst", Hsing et al., Symposium on Hydrogen Transfer in Hydrocarbon Processing, Div. Of Petroleum Chemistry Inc., 208th Meeting, Am. Chem. Soc. Washington, D.C., p. 388-392 (1994).
3. "Deep Catalytic Cracking Plant Produces Propylene in Thailand", Oil & Gas Journal, p. 49-53 (1998).
4. "Deep Catalytic Cracking, Maximize Olefin Production", Chapin et al, NPRA Annual Meeting, AM-94-43, p.1-14 (1994).
5. "DCC Flexibility for Isoolefins Production", Li et al., Symposium on Advances in Fluid Catalytic Cracking, Division of Petroleum Chemistry, Inc. 206th National Meeting, Am. Chem Soc. Chicago, p. 581-583 (1993).
6. "DCC - A New Propylene Production Process from Vacuum Gas Oil", Zaiting et al., National Petroleum Refiners Association", AM-90-40, p. 1-14 (1990)
7. "Commercial Trial of DCC (Deep Catalytic Cracking) Process for Gaseous Olefins Production", Xieqing et al., Research Institute of Petroleum Processing, SINOPEC (undated)
8. "Deep Catalytic Cracking for Light Olefins", Chapin et al., Presented at Fifth World Congress of Chemical Engineering, San Deigo (1996).

Copies of the documents set forth above have been enclosed herewith for the convenience of the Examiner. A separate listing of these publications has been provided on Form PTO-1449, also enclosed herewith.

In view of the present submission, it is believed that the present application is in all respects complete, and in condition for examination and favorable consideration.

If the Examiner has any questions or comments relating to the present application, he or she is respectfully invited to contact Applicants' attorney at the telephone number provided below.

Respectfully submitted,



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